Spatial Data Standards
for Facilities, Infrastructure, & Environment (SDSFIE)
FY2001 Goals

Component 1 - SDSFIE Customer Service and Evaluation/Incorporation of Comments.

Maintain, upgrade, and provide monthly project development updates and information on the Center's SDSFIE and "Project" Internet Web Sites. Maintain a database containing SDSFIE comments/questions, and Center replies/resolutions. Update the Center's SDSFIE Internet Web Site. Review, research, answer comments and questions generated by customers concerning the SDSFIE, and update SDSFIE as necessary to incorporate SDSFIE customer comments and requests. Develop technical guidance for distribution of CD and posting on the Center's Web site.

a. Update and Maintain SDS Web Site (POC - Bobby Carpenter)
b. Update and Maintain Comments Database (POC - Bobby Carpenter)

c. Review, Research & Answer comments from customers -

(1) (POC - Bobby Carpenter) -
- Entity Sets - Environmental Hazards, Common, & Utilities.
- Software - AutoCAD & Map, Access.

(2) POC - Nancy Towne -
- Entity Sets - Boundary, Cadastre, Hydrography, Improvement, & Transportation (General, Lock System, Marine, Marine Navigation, Ports, & Harbors).
- Software - Intergraph GeoMedia, MGE; Bentley Micro Station, GeoGraphics; Access & Oracle.

(3) POC - Denise Martin -
- Entity Sets - Buildings, Communications, & Demographics.
- Software - ESRI Arc Info & Arc View, Access.

(4) POC - Laurel Gorman -
- Entity Sets - Cultural, Ecology, Fauna, Flora, & Geology.

(5) POC - Bryan Perdue -
- Entity Sets - Landform, Land Status, Military Operations, & Transportation (Air, Airfield Facility, Railroad, Vehicle, Pedestrian).

(6) POC - Dr. Dan -
- Entity Sets - Auditory, Climate, Geodetic, Visual, Olfactory, & Soil.
- Symbol Sets.

(7) POC - Chip Fleming -
- SDSFIE Validation Rules, SDSFIE/FMSFIE Software, Data Modeling, & Relational Database Design.

d. Develop technical guidance for distribution of CD and posting on SDS Web Site -
(1) Update MGE & GeoMedia Technical Guides (POC - Nancy Towne).
(2) Update ARCINFO 7.x & Arc View 3.x Technical Guides (POC - Denise Martin).
(3) Prepare Technical Guide for AutoCAD Map (POC - Bobby Carpenter).
(4) Update SDS/FMS Data Model White Paper (POC - Bobby Carpenter).
(5) Prepare Technical Guide for ARC GIS 8.x (POC - Denise Martin).

Component 2 - Review, Update, and Test SDSFIE.

Review, update (using "Maintainer"), and perform QA/QC testing of SDSFIE aspects of the SDSFIE/FMSFIE database, Browser, Generator, Filter Maker, and other SDSFIE software applications. Review and update SDSFIE related "Filters" and technical content. Test SDSFIE/FMSFIE Generator, GeoMedia Generator, and GeoDatabase Generator for each release. Investigate the incorporation of new data types (e.g., ESRI Routes and Regions) into SDSFIE data model.

a. Review, coordinate with appropriate FUGs, etc., prepare spreadsheets, etc. to Update/Revise SDSFIE technical content -
(1) Entity Sets - Environmental Hazards, Common, & Utilities (POC - Bobby Carpenter).
(2) Entity Sets - Hydrography, Improvement, Transportation (General, Lock System, Marine, Marine Navigation, Ports, & Harbors), Boundary, & Cadastre (POC - Nancy Towne).
(3) Entity Sets - Buildings, Communications, & Demographics (POC - Denise Martin).
(4) Entity Sets - Cultural, Ecology, Fauna, Flora, & Geology (POC - Laurel Gorman).
(5) Entity Sets - Landform, Land Status, Military Operations, & Transportation (Air, Airfield Facility, Railroad, Vehicle, Pedestrian) (POC - Bryan Perdue).
(6) Entity Sets - Auditory, Climate, Geodetic, Visual, Olfactory, & Soil. Review and test Symbol Sets (POC - Dr. Dan) .
 (7) Review spreadsheets, etc. for compliance with SDSFIE Validation Rules & relational database design. Perform data modeling to assist in update revision of SDSFIE (POC - Chip Fleming).

b. Review, Update, & Develop New "Filters" -
(1) Environmental Restoration, Environmental Compliance (POC - Bobby Carpenter).
(2) REEGIS, USACE Reservoir Operations, Real Estate (POC - Nancy Towne).
(3) Civil Works (POC - Dr. Dan).
(4) Range & Training, Comprehensive Planning (POC - Bryan Perdue).
(5) Small Scale Mapping (originated from USGS) - Delete
(6) Dredging (POC - Laurel Gorman).

c. Update SDSFIE Using "Maintainer" -
(1) Tables & Domains associated with Environmental Hazards, Utilities, Buildings, & Common Entity Sets (POC - Bobby Carpenter).
(2) All new Entity Sets, Classes, & Entity Types. Tables and Domains associated with remaining Entity Sets (POC - Chip Fleming).

d. Investigate incorporation of new data types into SDSFIE (e.g., ESRI Routes, Regions) (POC - Denise Martin).

e. Perform QA/QC review/testing of SDSFIE using Maintainer (POC - Chip Fleming).

f. Test Browser, Filter Maker, & Generator Software -
(1) Test all software applications prior to delivery to Center, & check Generator for Informix (POC - Barry Schimpf).
(2) Check Generator(s) for MGE, GeoMedia, Oracle, & Access (POC - Nancy Towne).
(3) Debugging of all software applications & check Generator for SQL Server (POC - Chip Fleming).
(4) Check ESRI Personal GeoDatabase Generator (to be developed), & Access (POC - Denise Martin).

Component 3 - SDSFIE Related Meetings and Briefings.

Attend meetings concerning use of GIS and the SDSFIE. Develop and provide SDSFIE related briefings at the Center, and at various conferences, installations, districts, and meetings (to the extent of available funds). Host meetings with small groups of technical experts (to the extent available funds permit) for the review and expansion of the SDSFIE technical content.   Provide a Center representative at DoD and Federal GIS User Group meetings. Support the GeoBase initiative by providing a Center representative at meetings and in promotion of the GeoBase concept.

Component 4 - Develop SDSFIE ANSI Standard.
Provide support for the adoption of the SDSFIE as an ANSI Standard.
        a. SDSFIE ANSI Standard (POC - Kevin Backe).

Component 5 - Build Hydrography Filter (Nancy to Revise Scope).
Review USACE, NOAA, and FGDC hydrography related features and data requirements. Expand the SDSFIE as required. Work with TEC to provide a CADD and GIS format in both Intergraph and ESRI platforms for distribution to NOAA and USACE districts. Provide limited assistance to USACE Districts in implementing the SDSFIE using the Hydrography Filter. Prepare "white paper" technical documentation.
        a. Hydrography Filter (POC - Nancy Towne).

Component 6 - Expand Air Transportation Data Standards.
Complete the review of military, FAA, and commercial airport air transportation related data requirements and standards. Expand the SDSFIE/FMSFIE as required. Prepare "white paper" technical documentation concerning the SDSFIE air transportation standards.
        a. Expand Air Transportation Data Standards (POC - Bryan Perdue).

Component 7 - Expand Unexploded Ordnance (UXO) Data Standards.
Review and incorporate military (including service and DISA DDDS) unexploded ordnance (UXO) related data requirements and standards. Expand the SDSFIE/FMSFIE as required. Prepare "white paper" technical documentation concerning the SDS UXO Data Standards.
        a. Expand UXO Data Standards (DISA & USACE FUDS) (POC - Bobby Carpenter).
        b. Expand UXO Data Standards (Military Range & Training) (POC - Bryan Perdue).

Component 8 - Update Flora, Fauna, and Cultural Data Standards.
Complete the incorporation of remaining flora and fauna related geospatial data standards from previous efforts. Review/evaluate the cultural data model currently being developed for Langley AFB and update the SDSFIE cultural data model as necessary. Prepare "white paper" technical guidance.
        a. Update Flora, Fauna, & Cultural Data Standards (POC - Laurel Gorman).

Component 9 - Complete GeoDatabase Prototype.
Complete the development of a prototype implementation of the SDSFIE using ESRI ARCINFO 8.x GIS software. Prepare "white paper" technical documentation.
        a. Complete GeoDatabase Prototype (POC - Denise Martin).

Component 10 - Update Symbology.
Review and expand SDSFIE symbol sets to the extent of available funding.
        a. Collect "point" symbol images (paper or digital) for assigned Entity Sets (See POC listing under Component 1).
        b. Compile Table of New Symbol Images, & Solicit Review (POC - Dr. Dan).